TEJUS
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PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Name of Work	:	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
No.of Sample Tested	:	3
Date of Testing	:	19.12.2022
Technical Reference	:	**IS:516-1959 (Reaffirmed 1999), SP-24:1983.**
Grade of Concrete	:	M_{20} - 100mm thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50	140	0.66	2400.966	2.80	0.96	32.00	16.297	17.601	16.897	21.122
2	50	140	0.66	2400.966	2.80	0.96	31.00	15.788	17.051	16.369	20.461
3	50	140	0.66	2400.966	2.80	0.96	33.00	16.807	18.151	17.425	21.782

Note:

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Name of Work	:	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
No.of Sample Tested	:	3
Date of Testing	:	19.12.2022
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}, 100mm thick

No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50	140	0.66	2400.966	2.80	0.96	32.00	16.297	17.601	16.897	21.122
2	50	140	0.66	2400.966	2.80	0.96	31.00	15.788	17.051	16.369	20.461
3	50	140	0.66	2400.966	2.80	0.96	33.00	16.807	18.151	17.425	21.782

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Ramadhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 BFB park, 707 BFB park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
Consultants	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	20 mm down size		Proposed Use	Concrete	
Sample Location	At Plant		Date of Sampling	11-12-2022	
			Date of Testing	12-12-2022	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	280	280	2.80	97.20	95 - 100
10.00 mm	4725	5005	50.05	49.95	25 - 55
4.75 mm	4319	9324	93.24	6.76	0 - 10
Pan	676	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEJUS
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PAVER BLOCK(COBBLE STONE) TEST REPORT

Client	Bruhat Bangalore Mahanagara Palike
Contractor:	M/s.LNR Ventures Construction pvt Ltd
Name of Work:	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
No.of Sample Tested:	6
Date of Testing:	22-12-2022
Techinical Reference:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Paver block

Sl. No.	Location	Date of casting	Date of Testing	Weight of sample	Age in days	Load	C/s area	Charecteristic Copressive strength fck in N/mm^2	Average strength fck in N/mm^2
1	Cycle track	,11-10-2022	,22-12-2022	5..36	72.00	1200.00	40000.00	30.00	30.66
2	Cycle track	,11-10-2022	,22-12-2022	5..36	72.00	1226.00	40000.00	30.65	
3	Cycle track	,11-10-2022	,22-12-2022	5..36	72.00	1263.00	40000.00	31.58	
4	Cycle track	,11-10-2022	,22-12-2022	5..36	72.00	1214.00	40000.00	30.35	
5	Cycle track	,11-10-2022	,22-12-2022	5.36	72.00	1219.00	40000.00	30.48	
6	Cycle track	,11-10-2022	,22-12-2022	5.36	72.00	1236.00	40000.00	30.90	

Results: Copressive strength of Paver Block(N/mm^2)= 30.66

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PAVER BLOCK(COBBLE STONE) TEST REPORT

Client	Bruhat Bangalore Mahanagara Palike
Contractor:	M/s.LNR Ventures Construction pvt Ltd
Name of Work:	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
No.of Sample Tested:	6
Date of Testing:	22-12-2022
Techinical Reference:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Paver block

Sl. No.	Location	Date of casting	Date of Testing	Weight of sample	Age in days	Load	C/s area	Charecteristic Copressive strength fck in N/mm^2	Average strength fck in N/mm^2
1	Cycle track	,11-10-2022	,22-12-2022	2.68	72.00	608.00	20000.00	30.40	30.27
2	Cycle track	,11-10-2022	,22-12-2022	2.68	72.00	602.00	20000.00	30.10	
3	Cycle track	,11-10-2022	,22-12-2022	2.68	72.00	601.00	20000.00	30.05	
4	Cycle track	,11-10-2022	,22-12-2022	2.68	72.00	595.00	20000.00	29.75	
5	Cycle track	,11-10-2022	,22-12-2022	2.68	72.00	614.00	20000.00	30.70	
6	Cycle track	,11-10-2022	,22-12-2022	2.68	72.00	612.00	20000.00	30.60	

Results: Copressive strength of Paver Block(N/mm^2)= **30.27**

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)	
Consultants	TEJUS CONSULTANTS	
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	**12.5 mm down size**		**Proposed Use**	CONCRETE	
Sample Location	At Plant		**Date of Sampling**	**10-01-2023**	
			Date of Testing	**11-01-2023**	
IS Sieve Size (in mm)	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
20.0	0	0	0	100	100
12.5	504	504	5.04	94.96	90-100
10.0	4525	5029	50.29	49.71	40-85
4.75	4311	9340	93.40	6.60	0-10
Pan	660	10000			

Remarks : Satisfactory / Not Satisfactory

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Name of Work	:	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS, Basaveshwar Nagar Bangalore
Contractor	:	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Date of Testing	:	24-12-2021
Type of Mix	:	WMM
Sample I/D	:	WMM 1

GRADATION FOR WMM
(As per MORT&H 400-11)

Sample Location:	For Cycle Track continue portion	Date of Sampling:	23-12-2021
		Date of testing:	24-12-2021
Type of material & Purpose:	WMM	Oven Dry Wt.(gms):	10000.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
53	0	0	0.00	100.00	100.00
45	384	384	3.84	96.16	95-100
22.4	1779	2163	21.63	78.37	60-80
11.2	2253	4416	44.16	55.84	40-60
4.75	2016.0	6432	64.32	35.68	25-40
2.36	1387.0	7819	78.19	21.81	15-30
0.6	772.0	8591	85.91	14.09	8.0-22.0
0.075	885.0	9476	94.76	5.24	0-8
Pan	524.0	10000			
Total	10000.0				

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Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	WMM	**Proposed Use**	**WMM**
Sample Location	For Cycle Track continue portion	**Date of Sampling**	**23-12-2021**
		Date of Testing	**24-12-2021**

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	648	86	523	76
16.0	12.5	1130	124	977	112
12.5	10.0	775	65	724	54
10.0	6.3	615	60	565	46
Total		**3168**	**335**	**2789**	**288**

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.57
Elongation Index(%):	10.33
Combined FI+EL (%)	20.90

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Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)

AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)

Proposed Use	WMM	**Date of Sampling**	**23-12-2021**
Sample Location	For Cycle Track continue portion	**Date of Testing**	**24-12-2021**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	355.00	374.00	348.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	270.00	285.00	265.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	85.00	89.00	83.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	23.94	23.80	23.85	
5	Average Aggregate impact value	(%)	23.86			Max - 30 %

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Yelahanka Zone
BBMP, Bangalore - 92

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Test Report on Compressive Strength of Concrete Cubes

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SES park, 707 SES park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Location:	Cement
Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS Code:	IS:516-1959
Sample Location	Attur Samudayabhavan building (colounn)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	23-12-2022	30-12-2022	7 days	8.824	22500	373	16.58	16.61
2	23-12-2022	30-12-2022	7 days	8.832	22500	371	16.49	
3	23-12-2022	30-12-2022	7 days	8.870	22500	377	16.76	

Remarks : Satisfactory / Not Satisfactory

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Test Report on Compressive Strength of Concrete Cubes

Project	"Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)"
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M S.LNR Ventures Constructions pvt.Ltd)
Location:	Cement
Grade of Concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Road

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	23-12-2022	30-12-2022	7 days	8.824	22500	442	19.64	19.66
2	23-12-2022	30-12-2022	7 days	8.832	22500	438	19.47	
3	23-12-2022	30-12-2022	7 days	8.870	22500	447	19.87	

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Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions

Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)

	Date:	27-12-2021
Layer no. or level	WMM I layer	
Depth of hole	200mm	
Field density:	1	2
Chainage / Location	For Cycle Track continue portion'@66	For Cycle Track continue portion'@133
Wt. of wet material from hole (Ww) gms.	5987	5990
Wt. of sand+cylinder before pouring (w1) gms.	15000	15000
Wt. of sand+cylinder after pouring (w2) gms.	10595	10590
Wt. of sand in hole+ cone (w3) gms.	4405	4410
Wt. of cone gms.	1080	1080
Wt. of sand gms.	3325	3330
Bulk density of sand (ys)gm/cc	1.32	1.32
Bulk density of material(i.e. wt. of the wet material) (yb)=(Ww/w4*(ys))gm/cc	2.38	2.37
Moisture meter reading(moisture content)	6.40	6.20
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.23	2.24
MDD	2.27	2.27
OMC	6.10%	6.10%
% compaction obtained	98.41	98.49
% compaction required	98%	98%

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SPS park, 707 SPS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)				
Consultants	TEJUS CONSULTANTS				
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd.)				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	20 mm down size		**Proposed Use**	Concrete	
Sample Location	At Plant		**Date of Sampling**	10-01-2022	
			Date of Testing	11-01-2022	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
40.00 mm	0	0	0	100	100
20.00 mm	277	277	2.77	97.23	95 - 100
10.00 mm	4733	5010	50.10	49.90	25 - 55
4.75 mm	4318	9328	93.28	6.72	0 - 10
Pan	672	10000			

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
Consultants	TEJUS CONSULTANTS, Bangalore
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)

SIEVE ANALYSIS

Total Weight:	3000 gms			
Type of Material	M sand	Proposed Use	concrete	
Sample Location	At Plant	Date of Sampling	10-01-2023	
		Date of Testing	11-01-2023	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	214	214	7.13	92.87	90 - 100
2.36 mm	325	539	17.97	82.03	75 - 100
1.18 mm	442	981	32.70	67.30	55 - 90
0.600 mm	497	1478	49.27	50.73	35 -59
0.300 mm	715	2193	73.10	26.90	8-30
0.150 mm	623	2816	93.87	6.13	0 - 10
Pan	184	3000			-

Remarks : Satisfactory / Not Satisfactory

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

TEJUS CONSULTANTS

Authorised Signatory

TEJUS CONSULTANTS
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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
Consultants	TEJUS CONSULTANTS, Bangalore
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	concrete
Location/Source	At Plant	Date of Sampling	10-01-2023
Period of Soaking	24 hours	Date of Testing	11-01-2023

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	675	663	655	
B	Weight of oven - dry sample gm.	666	653	647	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1699	1692	1687	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.653	2.654	2.663	2.657
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.351	1.531	1.236	1.373

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TEJUS CONSULTANTS

Test Report on Compressive strength of Solid Block

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Cross sectional area	80000mm2
Size of cube	400x100x200mm
No. of Block Tested	1
Reference IS code:	IS:2185 (Part 1)- 2005

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Obtained Average compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2	N/mm^2
1	11.1.2023	11.1.2023	80000	402.00	5.03	5.05	5.00
2	11.1.2023	11.1.2023	80000	408.00	5.10		
3	11.1.2023	11.1.2023	80000	403.00	5.04		

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Test Report on Compressive strength of Solid Block

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Cross sectional area	80000mm2
Size of cube	400x150x200mm
No. of Block Tested	1
Reference IS code:	IS:2185 (Part 1)- 2005

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Obtained Average compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2	N/mm^2
1	22.1.2023	22.1.2023	80000	410.00	5.13	5.09	5.00
2	22.1.2023	22.1.2023	80000	405.00	5.06		
3	22.1.2023	22.1.2023	80000	407.00	5.09		

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TEJUS CONSULTANTS

Test Report on Cement

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Sample ID	Cement (OPC 43 Grade)
Date of Sample Tested	24-02-2022
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	116 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	436 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	

Remarks : ✓ Satisfactory / Not Satisfactory

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Test Report on Compressive Strength of Concrete Cubes

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Type of Material:	Cement
Grade of concrete:	M15
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Watchman shed side

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	12-12-2022	19-12-2022	7 days	8.832	22500	223	9.91	9.88
2	12-12-2022	19-12-2022	7 days	8.742	22500	220	9.78	
3	12-12-2022	19-12-2022	7 days	8.648	22500	224	9.96	

Remarks : ✓ Satisfactory / Not Satisfactory

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Test Report on Compressive Strength of Concrete Cubes

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Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Type of Material:	Cement
Grade of Concrete:	M15
Size of cube:	150x150x150 mm
Reference IS Code:	IS:516-1959
Sample Location	Watchman shed side

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	12-12-2022	09-01-2023	28days	8.216	22500	355	15.78	15.44
2	12-12-2022	09-01-2023	28days	8.215	22500	345	15.33	
3	12-12-2022	09-01-2023	28days	8.242	22500	342	15.20	

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Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Type of Material:	Cement
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Watchman shed side

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	11-01-2023	18-01-2023	7 days	8.832	22500	310	13.78	13.79
2	11-01-2023	18-01-2023	7 days	8.742	22500	313	13.91	
3	11-01-2023	18-01-2023	7 days	8.648	22500	308	13.69	

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Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Type of Material:	Cement
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Watchman shed side

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	11-01-2023	08-02-2023	28days	8.216	22500	486	21.60	21.61
2	11-01-2023	08-02-2023	28days	8.215	22500	491	21.82	
3	11-01-2023	08-02-2023	28days	8.242	22500	482	21.42	

Remarks : ✓ Satisfactory / Not Satisfactory

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Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Type of Material	Cement
Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Attur Samudayabhavan building (Lintel)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	15-02-2023	14-03-2023	28days	8.224	22500	562	24.98	25.20
2	15-02-2023	14-03-2023	28days	8.324	22500	573	25.47	
3	15-02-2023	14-03-2023	28days	8.420	22500	566	25.16	

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Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Type of Material	Cement
Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Attur Samudayabhavan building (Lintel)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	15-02-2023	22-02-2023	7 days	8.824	22500	373	16.58	16.70
2	15-02-2023	22-02-2023	7 days	8.832	22500	376	16.71	
3	15-02-2023	22-02-2023	7 days	8.870	22500	378	16.80	

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Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Type of Material	Cement
Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Attur Samudayabhavan building (Slab)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	10-11-2022	08-12-2022	28days	8.231	22500	566	25.16	25.23
2	10-11-2022	08-12-2022	28days	8.350	22500	573	25.47	
3	10-11-2022	08-12-2022	28days	8.420	22500	564	25.07	

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Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Type of Material	Cement
Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Attur Samudayabhavan building (Slab)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	08-04-2023	15-04-2023	7 days	8.824	22500	376	16.71	16.64
2	08-04-2023	15-04-2023	7 days	8.832	22500	372	16.53	
3	08-04-2023	15-04-2023	7 days	8.870	22500	375	16.67	

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Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Type of Material	Cement
Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Attur Samudayabhavan building (Slab)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	24-02-2023	24-03-2023	28days	8.224	22500	569	25.29	25.26
2	24-02-2023	24-03-2023	28days	8.324	22500	570	25.33	
3	24-02-2023	24-03-2023	28days	8.450	22500	566	25.16	

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BBMP, Bangalore - 92

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No. 45, Present BBMP No. 1204/45, Old no. 1204, 1st main, MRCR Layout, Bangalore 560040, Ph : 9611192254, 9611644110, tejusconsultants@gmail.com

TEJUS
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Test Report on Compressive Strength of Concrete Cubes

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Type of Material	Cement
Grade of Concrete:	M25
Size of cube:	150x150x150 mm
Reference IS Code:	IS:516-1959
Sample Location	Attur Samudayabhavan building (Slab)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	24-02-2023	03-03-2023	7 days	8.824	22500	377	16.76	16.64
2	24-02-2023	03-03-2023	7 days	8.832	22500	371	16.49	
3	24-02-2023	03-03-2023	7 days	8.872	22500	375	16.67	

Remarks : ✓ Satisfactory / Not Satisfactory

Note:

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3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

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Project Division
Yelahanka Zone
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Test Report on Compressive Strength of Concrete Cubes

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Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Type of Material	Cement
Grade of Concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Attur Samudayabhavan building (Footing)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	02-12-2022	09-12-2022	7 days	8.825	22500	375	16.67	16.64
2	02-12-2022	09-12-2022	7 days	8.830	22500	372	16.53	
3	02-12-2022	09-12-2022	7 days	8.871	22500	376	16.71	

Remarks : ✓ Satisfactory / Not Satisfactory

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Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Type of Material	Cement
Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Attur Samudayabhavan building (slab)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	08-04-2023	07-05-2023	28days	8.224	22500	562	24.98	25.20
2	08-04-2023	07-05-2023	28days	8.324	22500	573	25.47	
3	08-04-2023	07-05-2023	28days	8.420	22500	566	25.16	

Remarks : ✓ Satisfactory / Not Satisfactory

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Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Type of Material	Cement
Grade of Concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Attur Samudayabhavan building (Plinth Beam)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	19-12-2022	28-12-2022	7 days	8.824	22500	376	16.71	16.64
2	19-12-2022	28-12-2022	7 days	8.832	22500	372	16.53	
3	19-12-2022	28-12-2022	7 days	8.870	22500	375	16.67	

Remarks : ✓ Satisfactory / Not Satisfactory

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Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Type of Material	Cement
Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Attur Samudayabhavan building (Plinth Beam)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Fallure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	19-12-2022	18-01-2023	28days	8.224	22500	566	25.16	25.19
2	19-12-2022	18-01-2023	28days	8.324	22500	569	25.29	
3	19-12-2022	18-01-2023	28days	8.420	22500	565	25.11	

Remarks : Satisfactory / Not Satisfactory

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Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Type of Material:	Cement
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Road

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	23-12-2022	30-12-2022	7 days	8.824	22500	442	19.64	19.66
2	23-12-2022	30-12-2022	7 days	8.832	22500	438	19.47	
3	23-12-2022	30-12-2022	7 days	8.870	22500	447	19.87	

Remarks : ✓ Satisfactory / Not Satisfactory

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Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Type of Material:	Cement
Grade of Concrete:	M30
Size of cube:	150x150x150 mm
Reference IS Code:	IS:516-1959
Sample Location	Road

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	23-12-2022	20-01-2023	28 days	8.824	22500	676	30.04	30.06
2	23-12-2022	20-01-2023	28 days	8.832	22500	675	30.00	
3	23-12-2022	20-01-2023	28 days	8.870	22500	678	30.13	

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Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Type of Material	Cement
Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Attur Samudayabhavan building (coloumn)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	23-12-2022	20-01-2023	28days	8.224	22500	566	25.16	25.19
2	23-12-2022	20-01-2023	28days	8.324	22500	569	25.29	
3	23-12-2022	20-01-2023	28days	8.420	22500	565	25.11	

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Type of Material	Cement
Grade of Concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Attur Samudayabhavan building (coloumn)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	23-12-2022	30-12-2022	7 days	8.824	22500	373	16.58	16.61
2	23-12-2022	30-12-2022	7 days	8.832	22500	371	16.49	
3	23-12-2022	30-12-2022	7 days	8.870	22500	377	16.76	

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Type of Material	Cement
Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Attur Samudayabhavan building (Footing)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	02-12-2022	30-12-2022	28days	8.224	22500	563	25.02	25.16
2	02-12-2022	30-12-2022	28days	8.324	22500	570	25.33	
3	02-12-2022	30-12-2022	28days	8.420	22500	565	25.11	

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